# ENERGYFLEX PV B2ca (1.5kV DC)

**ENERGYFLEX WR 1x6² 1.5kV DC**


## Unmatched fire-proof safety

The ENERGYFLEX® B2ca patented solar cable is designed to have outstanding reaction to fire, allowing it to be combustible but with very little burning.

## STANDARDS

**Producto** EN 50575; EN 50618; IEC 60228; IEC 62930

## DESIGN

Single core fire resistance solar cable with low smoke, halogen free, crosslinked insulation and sheath.

**1. Conductor**
Stranded tinned copper wires class 5 acc. IEC 60228

**2. Insulation**
Cross-linked halogen-free rubber
Colour: white

**3. Sheath**
Cross-linked halogen-free fire retardant rubber
Colour: black

Example of marking: ENERGYFLEX® B2ca USE < HAR > H1Z2Z2-K 62930 IEC 131 1 x S mm² 1.5/1.5 (1,8) kV DC lynxeo 269 MADE IN FRANCE B2ca-s1,d2

## FEATURES

ENERGYFLEX® B2ca cables are dedicated to the photovoltaic system direct current (D.C.) side with a nominal D.C. voltage of 1.5 kV and a maximum D.C. voltage of 1.8 kV. Cable suitable to be used with Class II equipment.

These cables are suitable for permanent outdoor long-term use, under variable and harsh climate conditions. They are designed and tested to operate at a normal maximum conductor temperature of 90°C and for 20,000 hours up to 120°C. Therefore, the expected period use is 30 to 40 years under normal usage conditions (lifetime acc. to Arrhenius Diagram).

ENERGYFLEX® B2ca cables have CPR classification: B2ca-s1,d2,a1 according to EN 50575

- B2ca: combustible but very little burning
- s1: very low smoke production (best in class)
- d2: some flaming droplets
- a1: very low acidity of smoke (best in class)


Flexibilidad del conductor
**Flexible, Clase 5**

Libre de halógenos
**IEC 60754-1**


Tensión nominal de servicio Uo/U
**1.0/1.0 (1.2) kV AC**
**1.5/1.5 (1.8) kV DC**


No propagador del incendio
**EN 50575**


No propagación de la llama
**IEC 60332-1-2**


Densidad de los humos
**IEC 61034-2**


Corrosividad de los gases
**Baja IEC 60754-2**


Resistencia a la intemperie
**Excelente**

## CONTACT

Market information
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## CHARACTERISTICS

| | |
|---|---|
| **Características de construcción** | |
| Construction type | |
| Material del conductor | Cobre estañado |
| Flexibilidad del conductor | Flexible, Clase 5 |
| Aislamiento | Cross-linked halogen free rubber |
| Cubierta exterior | Cross-linked halogen free rubber |
| Libre de halógenos | IEC 60754-1 |
| **Características dimensionales** | |
| Sección del conductor | 6 mm² |
| Nominal conductor diameter | 2,9 mm |
| Nominal insulation thickness | 0,7 mm |
| Nominal outer sheath thickness | 1,5 mm |
| Diámetro exterior mínimo | 6,8 mm |
| Diámetro exterior nominal | - mm |
| Diámetro exterior máximo | 7,6 mm |
| Peso aproximado | 98 kg/km |
| **Características eléctricas** | |
| Tensión nominal de servicio Uo/U | 1.0/1.0 (1.2) kV AC 1.5/1.5 (1.8) kV DC |
| Operating Voltage Vo DC | 1500 V |
| Resistencia máxima del conductor en CC a 20º C | 3,39 Ohm/km |
| Permissible current rating in air 60°C | 70 A |
| Permissible current rating on a tray 60°C | 67 A |
| Permissible short circuit current conductor 1s | 0,8 kA |
| **Características de uso** | |
| No propagador del incendio | EN 50575 |
| No propagación de la llama | IEC 60332-1-2 |
| Densidad de los humos | IEC 61034-2 |
| Corrosividad de los gases | Baja IEC 60754-2 |
| Resistencia a la intemperie | Excelente |
| Resistancia al ozono | EN 50396 |
| Thermal endurance | IEC 60216-1-2 |
| Temperatura ambiente de utilización (rango) | -40 ... 90 °C |
| Temperatura máxima operativa | 120 °C |
| Temperatura máxima del conductor en corto-circuito | 250 °C |

## LIST OF CERTIFICATES

NF EN 50618: BUREAU VERITAS LCIE licence 662568
IEC 62930: BUREAU VERITAS Certificate of conformity 158416-729944
Construction Product Regulation (CPR) Performance: B2ca-s1,d2,a1